

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4229	(428/827 or 428/831.2 or 428/835 or 428/835.1 or 428/835.1 or 428/835.4 or 428/848.2 or 428/848.3 or 360/134 or 360/135 or 360/136 or 369/283 or 427/131).ccls.	US-PGPUB; USPAT	OR	OFF	2006/09/05 21:51
L2	763	l1 and soft	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/09/05 21:30
L3	0	l1 and (glass same substrate) and (carbon same proct\$)	US-PGPUB; USPAT	OR	ON	2006/09/05 21:30
L4	125	l1 and "hydrogenated carbon"	US-PGPUB; USPAT	OR	OFF	2006/09/05 22:02
L5	61	(204/192.15 or 204/192.2).ccls. and "hydrogenated carbon"	US-PGPUB; USPAT	OR	OFF	2006/09/05 22:02
S1	1	("2001143245").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/09/05 19:55
S2	1	iked a and koji and ito and toshiya and "magnetic recording"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/09/01 14:48
S3	63	iked a and ito and "magnetic recording"	US-PGPUB; USPAT; DERWENT	OR	ON	2006/09/01 14:49
S4	108	iked a and ito and nippon	US-PGPUB; USPAT; DERWENT	OR	ON	2006/09/01 14:50
S5	35	S3 and glass	US-PGPUB; USPAT; DERWENT	OR	ON	2006/09/01 14:51
S6	108	S4 and nippon	US-PGPUB; USPAT; DERWENT	OR	ON	2006/09/01 14:51
S7	5	S5 and nippon	US-PGPUB; USPAT; DERWENT	OR	ON	2006/09/01 14:51
S8	2	2001-143245	US-PGPUB; USPAT; DERWENT	OR	ON	2006/09/01 15:03
S9	1	"20040146686"	US-PGPUB; USPAT	OR	OFF	2006/09/01 15:53
S10	10	"Kong Kim" or "Junichi Horikawa"	US-PGPUB; USPAT	OR	OFF	2006/09/01 15:54

## EAST Search History

S11	1566	("Kim" or "Horikawa") and "magnetic recording"	US-PGPUB; USPAT	OR	ON	2006/09/01 15:55
S12	0	S11 and (disk or disc) and perendicular	US-PGPUB; USPAT	OR	ON	2006/09/01 15:55
S13	321	S11 and (disk or disc) and perpendicular	US-PGPUB; USPAT	OR	ON	2006/09/01 15:56
S14	11	S13 and "Hoya"	US-PGPUB; USPAT	OR	ON	2006/09/01 15:56
S15	10	S14 not S10	US-PGPUB; USPAT	OR	ON	2006/09/01 15:57
S16	1	S15 and texture and anisotropy	US-PGPUB; USPAT	OR	ON	2006/09/01 15:57
S17	14	S13 and texture and anisotropy	US-PGPUB; USPAT	OR	ON	2006/09/01 16:22
S18	14	S17 not S10	US-PGPUB; USPAT	OR	ON	2006/09/01 16:02
S19	473	"soft magnetic" and ("protective layer" or "protection layer") and (disk or disc) and "perpendicular magnetic recording"	US-PGPUB; USPAT	OR	ON	2006/09/01 16:06
S20	0	S19 and (glass same substrate) and (carbon same proct\$)	US-PGPUB; USPAT	OR	ON	2006/09/05 21:30
S21	277	S19 and (glass same substrate) and (carbon same protect\$)	US-PGPUB; USPAT	OR	ON	2006/09/01 16:07
S22	255	S21 and sputter\$	US-PGPUB; USPAT	OR	ON	2006/09/01 16:08
S23	15	S22 and (glass same strengthen\$) and rough\$	US-PGPUB; USPAT	OR	ON	2006/09/01 16:22
S24	50	("6028786" "6246541" "4985735" "5281938" "5399407" "5503911" "5840420" "6111268" "4373018" "4865878" "4868070" "5187859" "5202863" "5242865" "5517472" "5648163" "5693199" "5808832" "5822159" "5822158" "5872691" "5923503" "5948550" "5992004" "6023840" "6137064" "6185068" "6870716" "4384545" "4385273" "4387136" "4476509" "4489357" "4520409" "4531205" "4621030" "4769729" "4797766" "4841402" "4871883" "4884156" "4914741" "4921729" "4939046" "5006388" "5192423" "5227597" "5232569" "5320879" "5336559" ).pn.	US-PGPUB; USPAT	OR	OFF	2006/09/01 16:23
S25	0	S24 and (glass same strengthen\$) and rough\$	US-PGPUB; USPAT	OR	ON	2006/09/01 16:22

## EAST Search History

S26	1	S24 and texture and anisotropy	US-PGPUB; USPAT	OR	ON	2006/09/01 16:22
S27	2	"6881497"	US-PGPUB; USPAT	OR	OFF	2006/09/05 13:20
S28	200317	("360"/\$ or "428"/8 or "501"/\$ or "65"/\$ or "365"/\$ or "369"/\$).ccls.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/09/05 19:21
S29	67358	S28 and (soft magnetic)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/09/05 13:35
S30	43	S28 and perpendicular and (protection same (carbon or amorphous)) and (disk same glass) and anisotropy	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/09/05 13:39
S31	43	S29 and perpendicular and (protection same (carbon or amorphous)) and (disk same glass) and anisotropy	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/09/05 13:37
S32	23	S30 and soft	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/09/05 21:30
S33	81	("360"/\$ or "428"/8 or "501"/\$ or "65"/\$ or "365"/\$ or "369"/\$).ccls. and ("protection layer" same amorphous)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/09/05 19:31
S34	34	S33 and ("protection layer" with amorphous)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/09/05 19:30
S35	8	S33 and (carbon with amorphous)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/09/05 19:30
S36	163	("360"/\$ or "428"/8 or "501"/\$ or "65"/\$ or "365"/\$ or "369"/\$).ccls. and ("protection layer" same carbon)	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2006/09/05 19:31
S37	0	("5851643andsputter\$").PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/09/05 19:55
S38	44	"5851643" and sputter\$	USPAT	OR	OFF	2006/09/05 20:00
S39	6	"5723198" and sputter\$	USPAT	OR	OFF	2006/09/05 20:06
S40	4	"6511761" and sputter\$	USPAT	OR	OFF	2006/09/05 21:24